Site Name	West Vermont Drinking Water Contamination Site		TDD No.	0001-1505-202
Document Tracking No.	0456		TDD NO.	0001-1303-202
Data Reviewer (signature and date)	18 November 2015	TIL	QC Reviewer (signature and date)	John Reigo 18 November 2015
Laboratory Report No.	10319538		Laboratory	Pace Analytical, Inc., Minneapolis, Minn.
Analyses	Chlorinated ethene compounds by M	lethod TO-15		
Samples and Matrix	21 Air samples			
Field Duplicate Pairs		1031953800	02/10319538003:10	0319538017/10319538018;10319
Field Blanks	None	538014/103	·	

#### **INTRODUCTION**

This checklist summarizes the Stage 4 validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (August 2014) and the EPA *CLP NFG for Inorganic Superfund Data Review* (August 2014).

#### **OVERALL EVALUATION**

The analyses went will with no results rejected and few qualified. All results may be used, as qualified, for any purpose.

# Data completeness:

Within Criteria	Exceedance/Notes
Υ	



# Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Υ	

#### **Instrument Performance Checks:**

Within Criteria	Exceedance/Notes
Υ	

#### **Initial Calibration:**

Within Criteria	Exceedance/Notes
Υ	

#### **Continuing Calibration:**

Within	Even dance /Notes
Criteria	Exceedance/Notes
Υ	

#### **Calibration Verification:**

Within Criteria	Exceedance/Notes
Υ	



#### Method blanks:

Within Criteria	Exceedance/Notes
Υ	

#### Field blanks:

Within Criteria	Exceedance/Notes
NA	The data package included certification reports for all canisters. No analytes were detected.

#### Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
NA	

# System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
Υ	

#### MS/MSD:

Within	Exceedance/Notes
Criteria	Exceedance/ Notes
NA	

# Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	



#### **Serial dilutions:**

Within Criteria	Exceedance/Notes
NA	

# **Laboratory duplicates:**

Within Criteria	Exceedance/Notes
Υ	

# Field duplicates:

Within Criteria	Fxceedance/No	10319538003
N	The results from the indoor air field duplicate pairs were practically identified about 60 times the concentrations found in its primary sample.	Due to this uncertainty in the true results at that location,
	the detected results for sample and its field dup 10319538002	licate were qualified as estimated and flagged "J".

# LCSs/LCSDs:

/ithin riteria	Exceedance/Notes
N	The first (of two) LCS yielded a recovery of 130 percent for vinyl chloride, just above the QC limits of 72 to 129 percent. (The
	second LCS yielded a recovery of 124 percent for that analyte.) Vinyl chloride was not detected in any of the field samples so no qualifications were applied.

# Sample dilutions:

Within Criteria	Exceedance/Notes
NA	



### **Re-extraction and reanalysis:**

Within Criteria	FXCEEdance/Notes
NA	

# Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
NA	

#### **Internal Standards:**

Within Criteria	Exceedance/Notes
Υ	

#### Target analyte identification:

Within Criteria	Exceedance/Notes
Υ	

#### Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Υ	

#### **Tentatively identified compounds:**

	,
Within	Exceedance/Notes
Criteria	Exceedance/ Notes
NA	



System performance and instrument stability:

Within Criteria	Exceedance/Notes
Υ	

Other [specify]:

other [openity].	
Within	Exceedance/Notes
Criteria	
NA	

# **Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

